

Assistant Professor Hüseyin BAKIR

Department of Electrical and Electronics Engineering, İstanbul Yeni Yüzyıl University,
İstanbul, Türkiye.

Mail: huseyin.bakir@yeniyuzyil.edu.tr

 [https://orcid.org/ 0000-0001-5473-5158](https://orcid.org/0000-0001-5473-5158)

Scholar: <https://scholar.google.com/citations?user=9YQgafcAAAAJ&hl=tr>

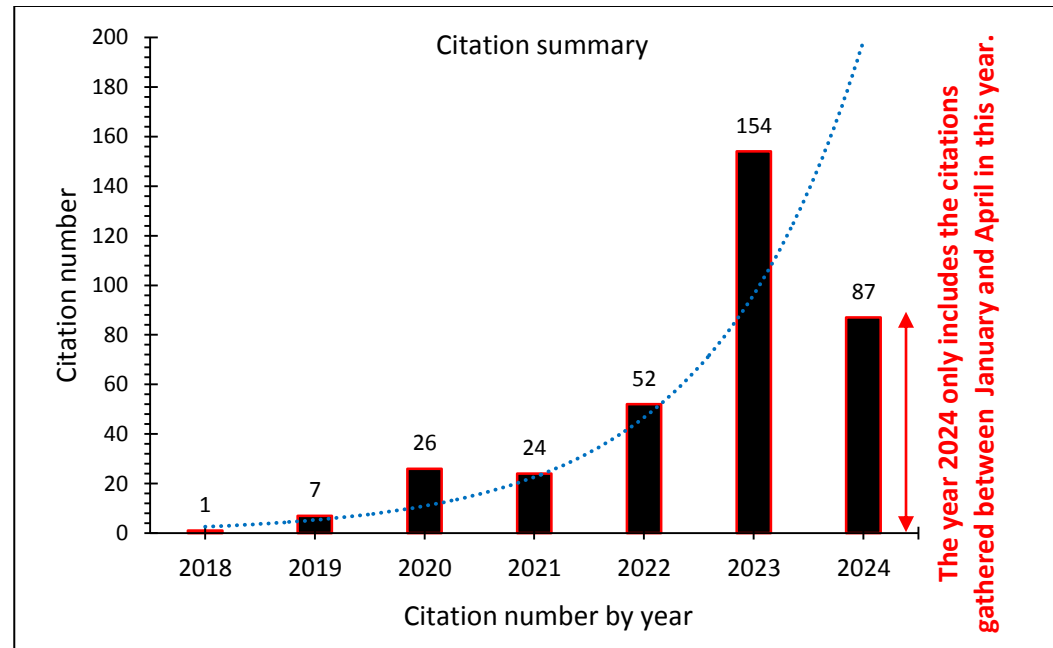
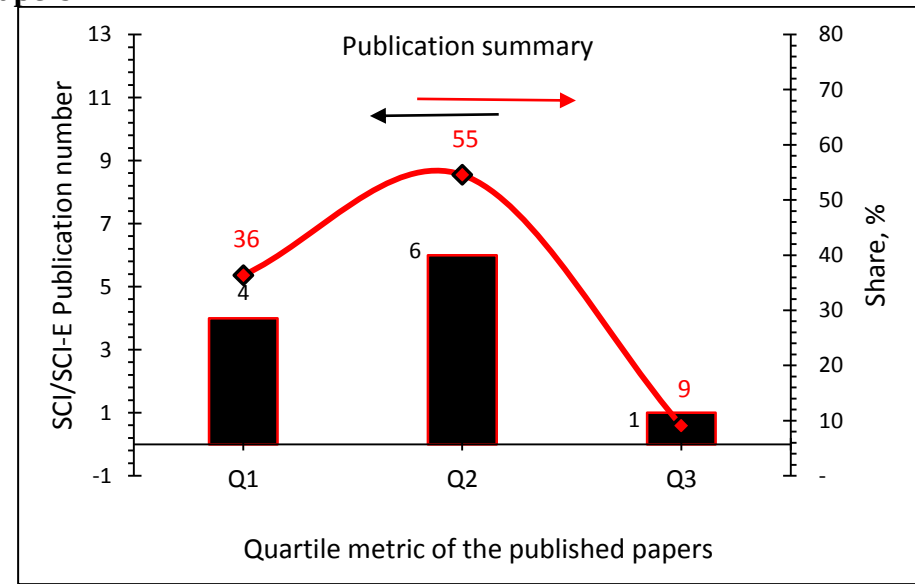
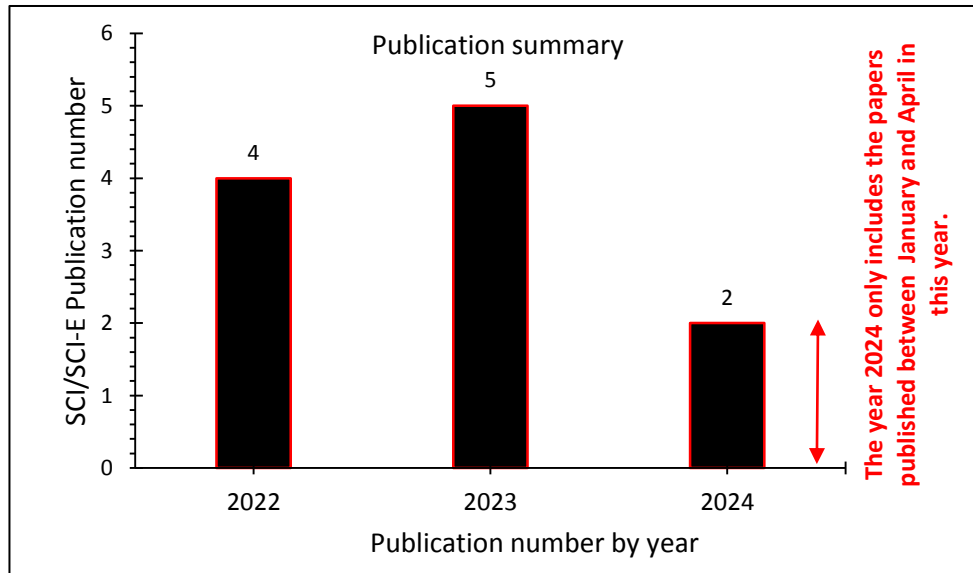
1. Educational Background

Degree	Department	University	Duration
B.Sc	Electrical and Electronics Engineering	Düzce University, Düzce, Türkiye	2011-2015
M.Sc	Electrical and Electronics Engineering	Düzce University, Düzce, Türkiye	2015-2018
Ph.D	Electrical and Electronics Engineering	Düzce University, Düzce, Türkiye	2018-2022

Highlights:

- Editorship duties in TR-Dizin Journal (Düzce University Journal of Science & Technology)
- Organization committee member of 5th International Engineering Research Symposium in 2024 and 11th International Vocational Schools Symposium in 2023.
- Special Issue Editorship
- h-index: 9, and i-10 index: 8.

2. Publication Summary of Published SCI/SCI-Expanded Papers



List of only SCI/SCI-E indexed papers

1. **Bakır, H.** (2024). A Novel Improved Artificial Hummingbird Algorithm with Natural Survivor Method. *Neural Computing and Applications*, 1-33. [SCI/SCIE Indexed, 2024 impact factor 6.00 Q2].
2. **Bakır, H.** (2024). Dynamic fitness-distance balance-based artificial rabbits optimization algorithm to solve optimal power flow problem. *Expert Systems with Applications*, 240, 122460 [SCI/SCIE Indexed, 2024 impact factor 8.50 Q1].
3. **Bakır, H.**, Guvenc, U., Duman, S., & Kahraman, H. T. (2023). Optimal Power Flow for Hybrid AC/DC Electrical Networks Configured With VSC-MTDC Transmission Lines and Renewable Energy Sources. *IEEE Systems Journal*. [SCI/SCIE Indexed, 2023 impact factor 4.80 Q2].
4. **Bakır, H.**, Duman, S., Guvenc, U., & Kahraman, H. T. (2023). A novel optimal power flow model for efficient operation of hybrid power networks. *Computers and Electrical Engineering*, 110, 108885. [SCI/SCIE Indexed, 2023 impact factor 4.3 Q2].
5. Ağbulut, Ü., Yıldız, G., **Bakır, H.**, Polat, F., Biçen, Y., Ergün, A., & Gürel, A. E. (2023). Current practices, potentials, challenges, future opportunities, environmental and economic assumptions for Türkiye's clean and sustainable energy policy: A comprehensive assessment. *Sustainable Energy Technologies and Assessments*, 56, 103019. [SCI/SCIE Indexed, 2023 impact factor 7.63 Q1].
6. Gürel, A. E., Ağbulut, Ü., **Bakır, H.**, Ergün, A., & Yıldız, G. (2023). A state of art review on estimation of solar radiation with various models. *Heliyon*, e13167. [SCI/SCIE Indexed, 2023 impact factor 3.776 Q2].
7. **Bakır, H.**, Duman, S., Guvenc, U., & Kahraman, H. T. (2023). Improved Adaptive Gaining-Sharing Knowledge Algorithm with FDB-based Guiding Mechanism for Optimization of Optimal Reactive Power Flow Problem. *Electrical Engineering*. [SCI/SCIE Indexed, 2023 impact factor 1.63 Q3].
8. **Bakır, H.**, Ağbulut, Ü., Gürel, A. E., Yıldız, G., Güvenç, U., Soudagar, M. E. M., ... & Afzal, A. (2022). Forecasting of future greenhouse gas emission trajectory for India using energy and economic indexes with various metaheuristic

algorithms. *Journal of Cleaner Production*, 360, 131946. [SCI/SCIE Indexed, 2022 impact factor 11.072 Q1].

9. **Bakir, H.**, Guvenc, U., Kahraman, H. T., & Duman, S. (2022). Improved Lévy flight distribution algorithm with FDB-based guiding mechanism for AVR system optimal design. *Computers & Industrial Engineering*, 168, 108032. [SCI/SCIE Indexed, 2022 impact factor 7.18 Q1].
10. **Bakir, H.**, Guvenc, U., & Kahraman, H. T. (2022). Optimal operation and planning of hybrid AC/DC power systems using multi-objective grasshopper optimization algorithm. *Neural Computing and Applications*, 1-33. [SCI/SCIE Indexed, 2022 impact factor 5.102 Q2].
11. Kahraman, H. T., **Bakir, H.**, Duman, S., Katı, M., Aras, S., & Guvenc, U. (2022). Dynamic FDB selection method and its application: modeling and optimizing of directional overcurrent relays coordination. *Applied Intelligence*, 52(5), 4873-4908. [SCI/SCIE Indexed, 2022 impact factor 5.019 Q2].

3. **Other papers** (not available here not to extend the page number, but provided on request)

- 1 E-SCI indexed paper,
- 4 national (TR dizin) papers,
- 7 international conference papers,
- 4 book chapters.

4. **Editorial Tasks**

Journal	Role	Index	Date
Duzce University Journal of Science Technology	Assoc. Editor	TR-Dizin, Ebsco	2021-Present

5. Special Issue Editorship

- Guest Editor of special issue “*Sustainability for Green Energy Systems: Conversion, Utilization, Management, Opportunities, and Challenges*” [***Sustainability* MDPI, SCI/SCIE Impact Factor 3.889 Q2**]

6. Courses Taught

Lessons – 2020-2024

MKT101–Direct Current Circuit Analysis

MKT102–Alternating Current Circuit Analysis

ELK108– Introduction to Electronics

MKT203– Digital Electronics

MKT274– Introduction to Control Systems

EEM451-Artificial Neural Network and Applications

EEM216- Electric Circuits II and Laboratory

EEM432- Digital Image Processing

7. Language scores

English – 77.5 (2017)

8. Reviewer Duties

Energy, Information Sciences, Energy Conversion and Management, Neural Computing and Applications, Sustainable Energy Technologies and Assessments, Heliyon, , Part E: Journal of Process Mechanical Engineering, Materials Today: Proceedings, Environmental Challenges, Smart Science.

9. Roles in Conferences

Conference	Role	Website	Date
5 th International Engineering Research Symposium	Organization Committee	http://umas.duzce.edu.tr	2024
11 th International Vocational Schools Symposium	Organization Committee	https://duzce.edu.tr/diger/umyos2023/1688/umyos-2023-duzenleme-kurulu	2023

10. Membership Information

The Chamber of Electrical Engineers (EMO), 2015-Present

11. Research Areas

Power systems, renewable energy, machine learning algorithms, metaheuristic algorithm design, optimization, and artificial intelligence applications.